



P07 41795

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

June 21, 2000

In re application of: Carol W. Readhead, Robert Winston,  
H. Phillip Koeffler and Carsten Müller  
Serial No.: 09/292,723  
Filed on: April 15, 1999  
Title: TRANSFECTION, STORAGE AND TRANSFER OF MALE GERM  
CELLS FOR GENERATION OF TRANSGENIC SPECIES &  
GENETIC THERAPIES

Examiner: Unknown  
Group: 1632

**TRANSMITTAL OF FORMAL DRAWINGS**

Assistant Commissioner for Patents  
Washington, D. C. 20231

Attention: Drawing Review Branch

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO DRAWING REVIEW BRANCH, THE ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, D. C. 20231.

ON June 21, 2000

DATE

BY

ANN WEISS

June 21, 2000

(DATE OF SIGNATURE)

Sir:

Transmitted herewith for filing in the above-identified application are nine sheets of formal drawings.

Respectfully submitted,

PRETTY, SCHROEDER & POPLAWSKI, P.C.

Nisan A. Steinberg, Ph.D.  
Registration No. 40,345

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4363.1

FIG. 1

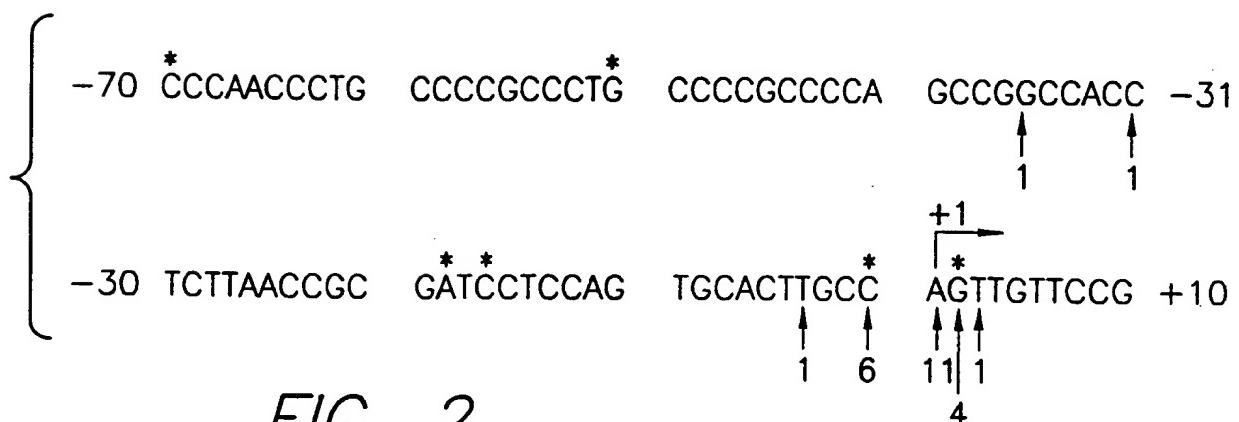
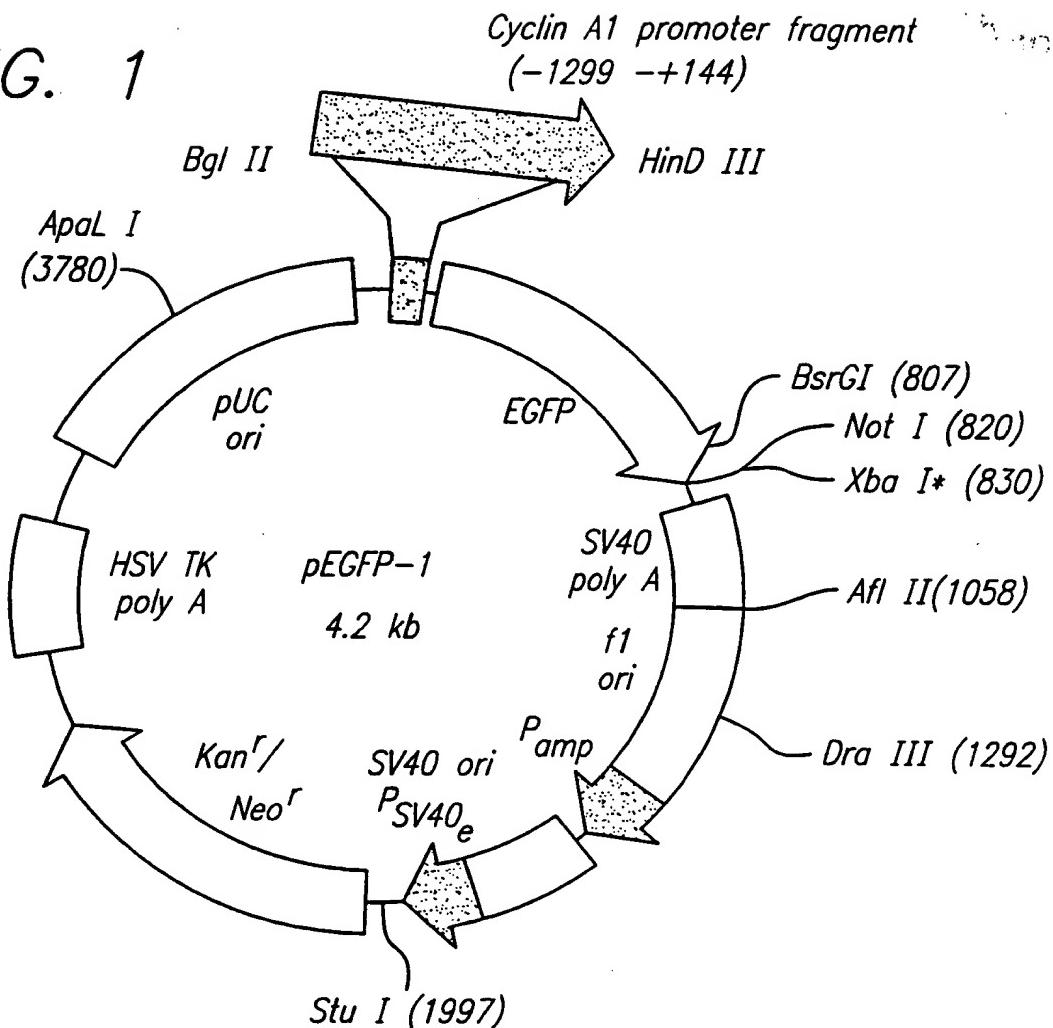


FIG. 2

## FIG. 3

-1299 TCGATCTGAT TTAGAGATT AGGGATGGAT GTTTAAAAAA AAGCAAAAGT  
 -1249 AGTAACAGAC TATAGCATTG GTAATGTGTG TGTGCATATA TACATATTAT  
 -1199 TTTAAAAAA ATAAAGTTCG ATTATTCAC CTGGCTTGTG AGTCACCTAT  
 -1149 GCAGGCGTCT GAGCCCCCGG GTTCCAGGA GCCCCCCGTA TAAGGACCCC  
 -1099 AGGGACTCCT CTCCCCACGC GGCGGGGCCG CCCGCCGGC CCCCAGCCG  
 -1049 GAGAGCTGCC ACCGACCCCC TCAACGTCCC AAGCCCCAGC TCTGTCGCC  
 -0999 GCGTTCTTC CTCTTCTGG GCCACAATCT TGGCTTCCC GGGCCGGCTT  
 -0949 CACGCAGTT CGCAGGAGCC CGCGGGGGAA GACCTCTCGT GGGGACCTCG  
 -0899 AGCACGACGT GCGACCTAA ATCCCCACAT CTCTCTGCG GCCTCGCAGG  
 -0849 CCACATGCAC CGGGAGCCGG GCAGGGCAGG CGCGGCCCGC AAGGACCCC  
 -0799 GCGATGGAGA CGAACACTG CCGCGACTGC ACTTGGGCA GCCCCGCCGC  
 -0749 GTCCCAGCCG CCTCCCGGCA GGAAGCGTAG GTGTGTGAGC CGACCCGGAG  
 -0699 CGAGCCGCGC CCTCGGGCCA GCGTGGGCAG GGCGCCGCGAG CCTGCGCAGC  
 -0649 CCCGAGGACC CCGCGTCGCT CTCCCAGGCC AGGGTTCTCA GGAGCGGGCC  
 -0599 GCGCAGGAGA CGTTAGAGGG GGTTGTTAGC GGCTGTTGGG AGAACGGGT  
 -0549 ACGGAAACAG TCCCTTCAA AGCCGGGGCC ATCGTGGGGT GGGCGAGTCC  
 -0499 GCCCTCCCAG GCCGGGGCG CGGACAGAG GGGACGTGTG CAGACGGCG  
 -0449 CGGTCAAGCCC CACCTCGCCC GGGCGGAGAC GCACAGCTGG AGCTGGAGGG  
 -0399 CCGTCGCCCC TTGGGCCCTC AGGGGCCTGA ACGCCAGGG GTCGCGGCGA  
 -0349 GTCCACCCGG AGCGAGTCAG GTGAGCAGGT CGCCATGGCG ATGCGGCC  
 -0299 GGAGAGCGCA CGCCTGCCGC GGTCGGCATG GAAACGCTCC CGCTAGGTCC  
 -0249 GGGGCGCCG CTGATTGGCC GATTCAACAG ACGCCGGTGG GCAGCTCAGC

-190   -160

-0199 CGCATCGCTA AGCCCGGCG CCTCCAGGC TGGAATCCCT CGACACTTGG  
GC-box 6

-120   -112

-0149 TCCTTCCGC CCCGCCCTTC CGTGCCCTGC CCTTCCCTGC CCTTCCGCG GC-box 4  
GC-box 5

-37   +1

-0099 CCTGCCCGC CGGGCCCCGGC CCGGCCCTGC CCAACCTGC CGCGCC GC-box 2  
GC-box 3

Myb

-0049 CGCGCC CAGC CGGCCACCTC TTAAC CGCGA TCCTCCAGTG CACTTGCCAG  
GC-box 1

+0003 TTG TTCCGGA CACATAGAAA GATA ACGACG GGAA GACGGG GCCCGTTG  
Myb   GATA-1                                   ets

+0053 GGGTCCAGGC AGGTTTTGGG GCCTCCTGTC TGGTGGGAGG AGGCCGCAGC

+144

+0103 GCAGCACCCCT GCTCGTCACT TGGGATGGAG ACCGGCTTTC CGGCAATCAT  
E2F

3/9

FIG. 4

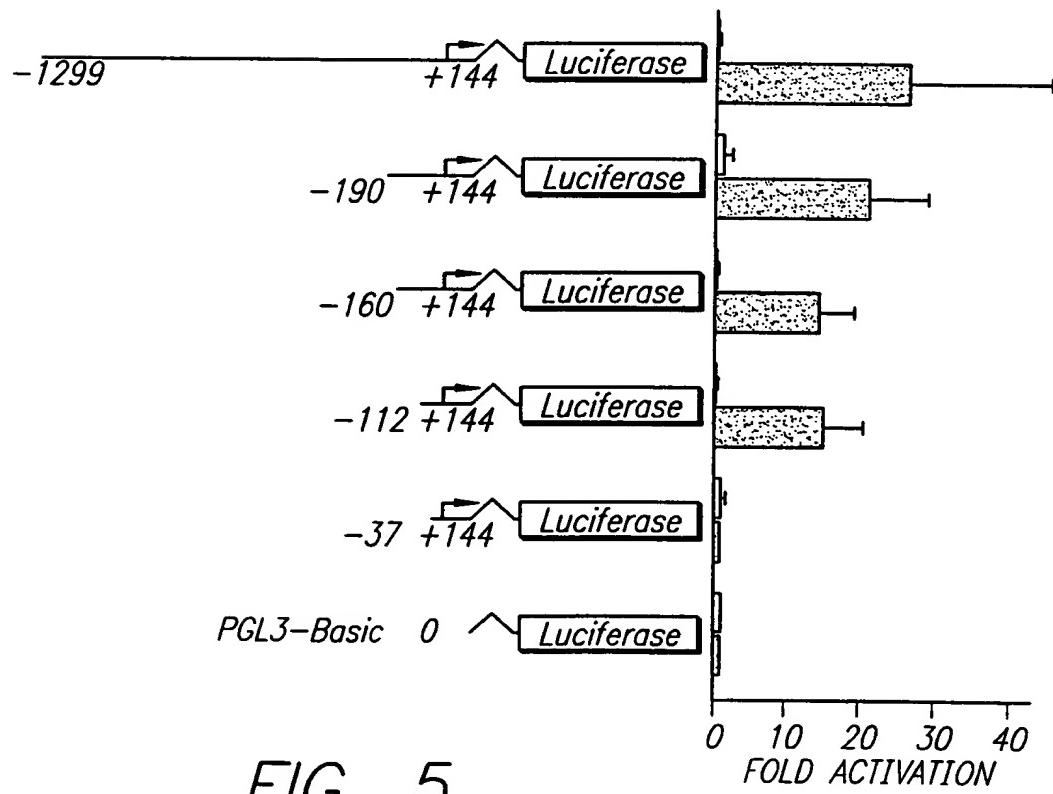
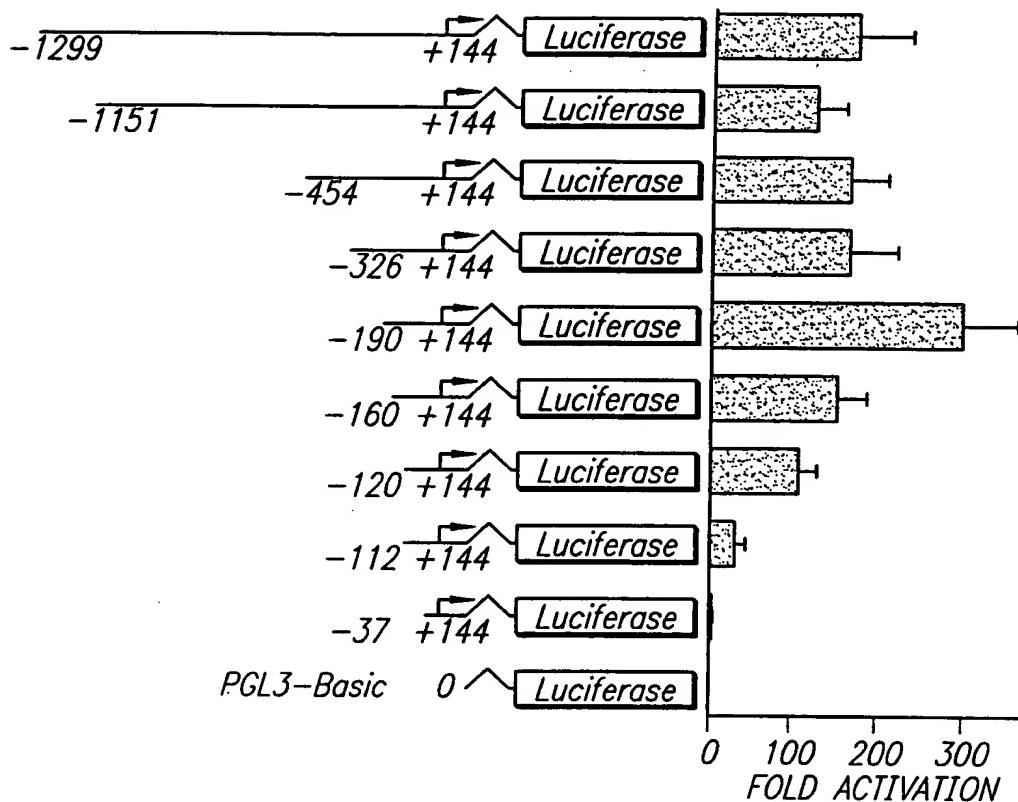
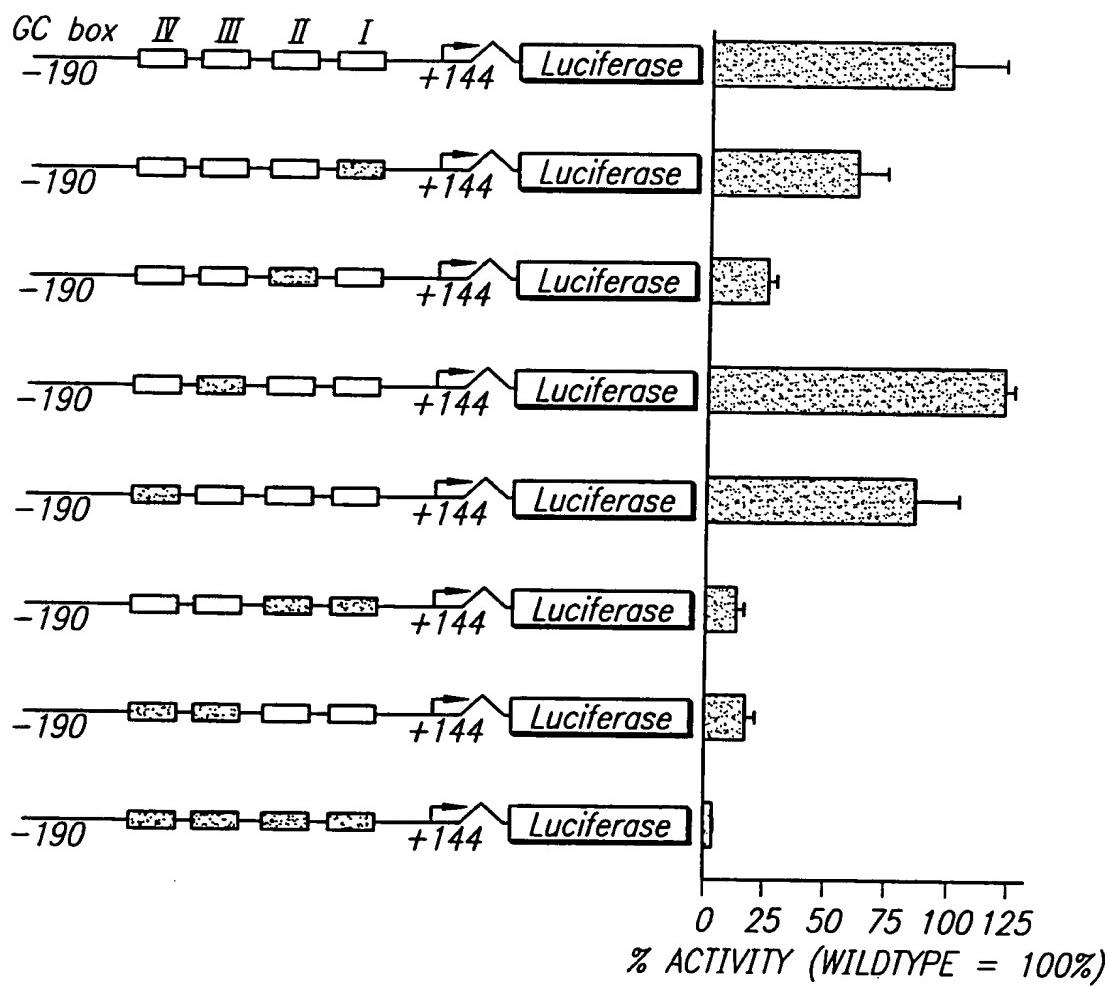


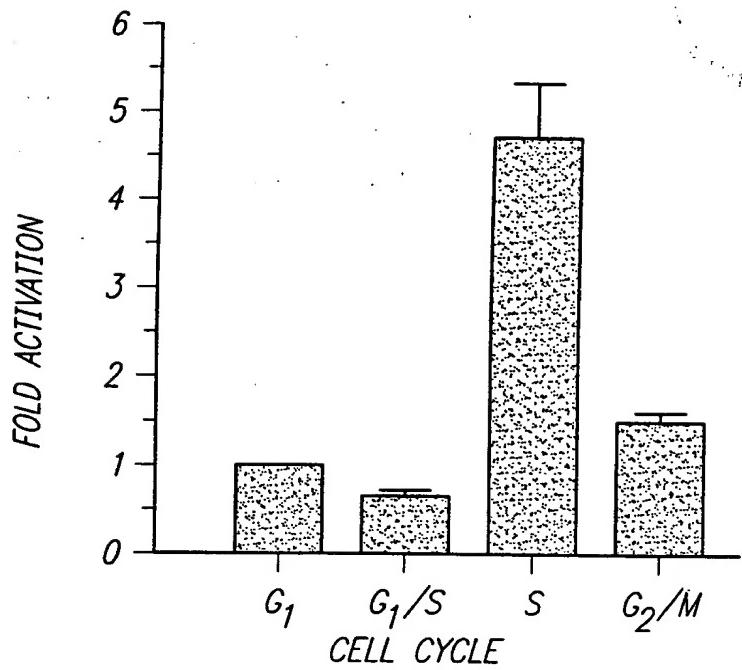
FIG. 5

FIG. 6



5/9

FIG. 7a



FOLD ACTIVATION (ACTIVITY AT 0 h=1)

FIG. 7b

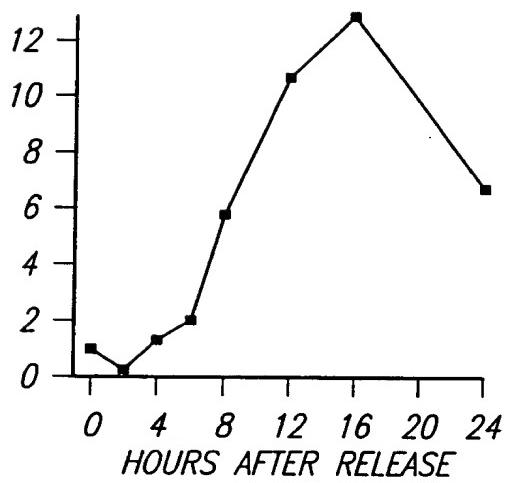
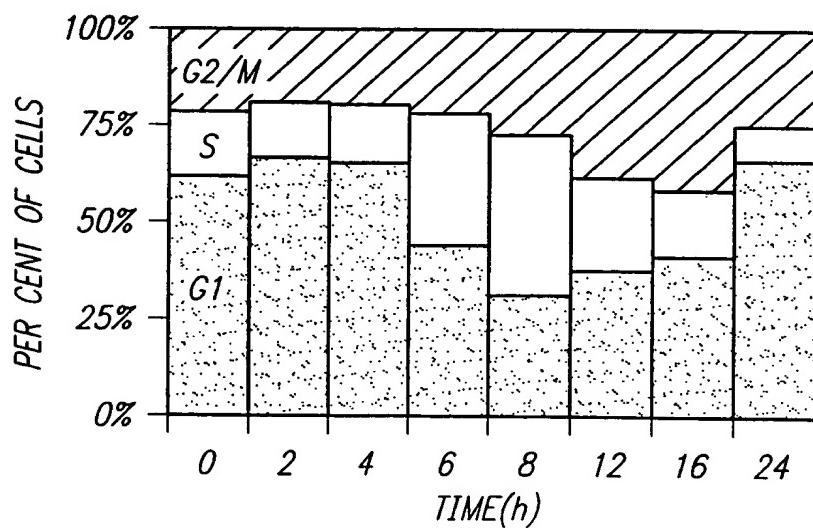


FIG. 7c



6/9

FIG. 8a

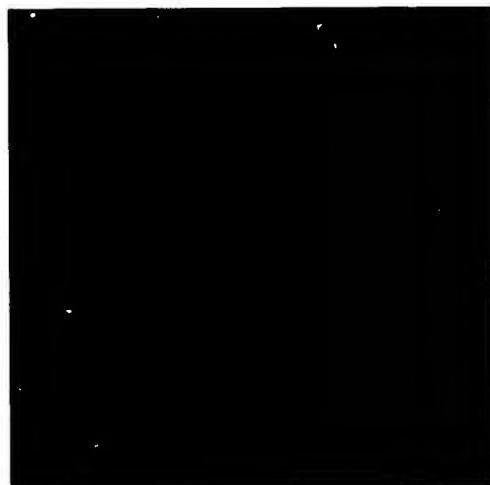


FIG. 8b

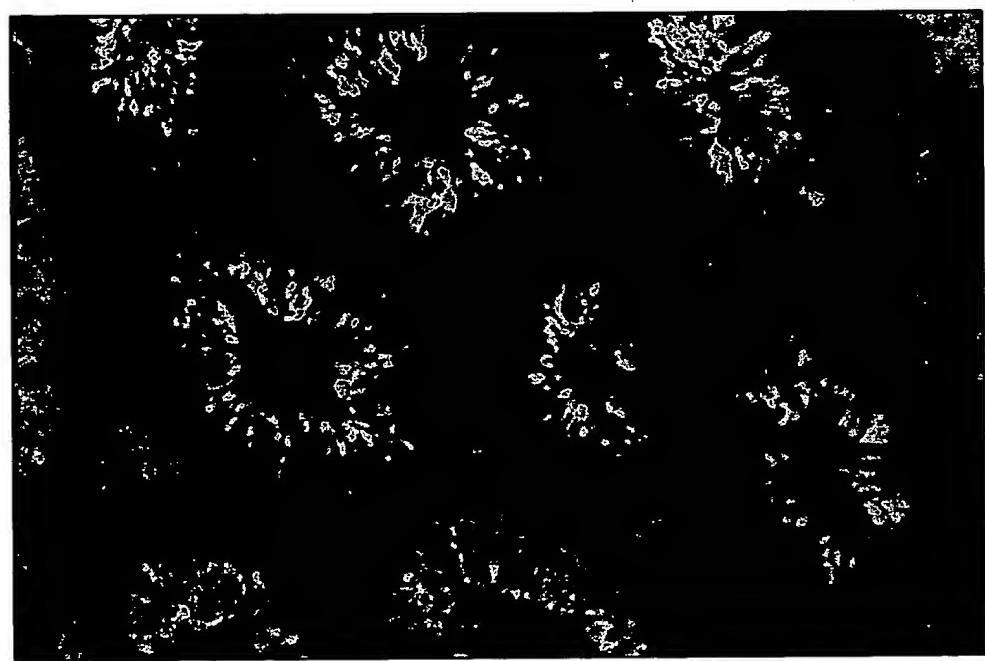
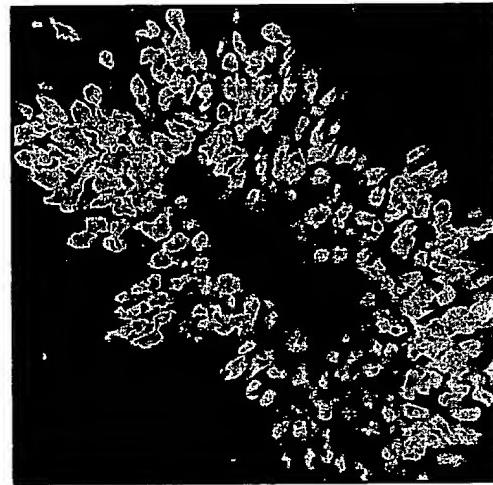


FIG. 8c

FIG. 9a

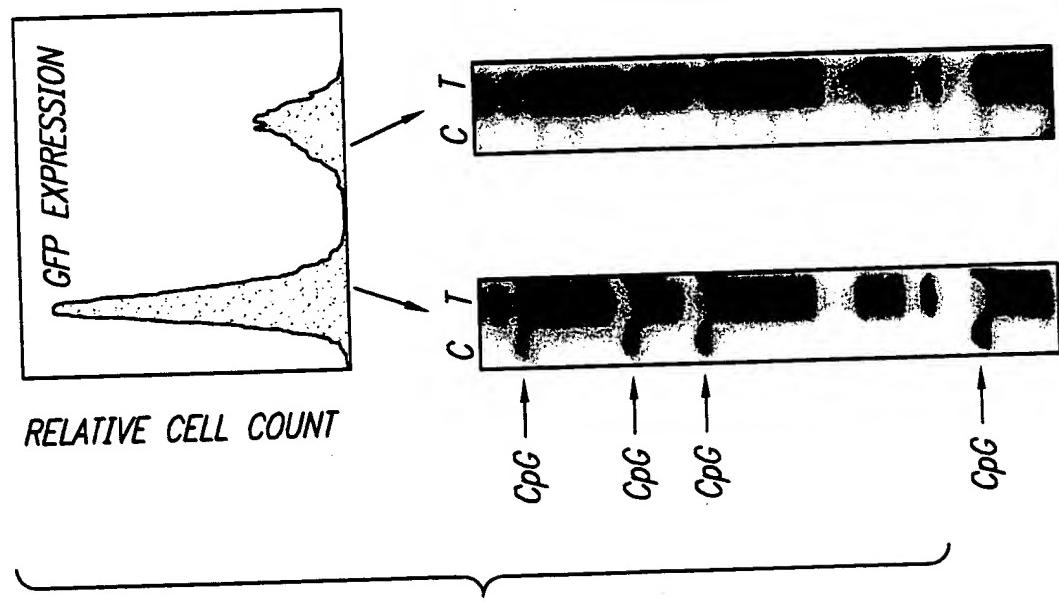


FIG. 9b

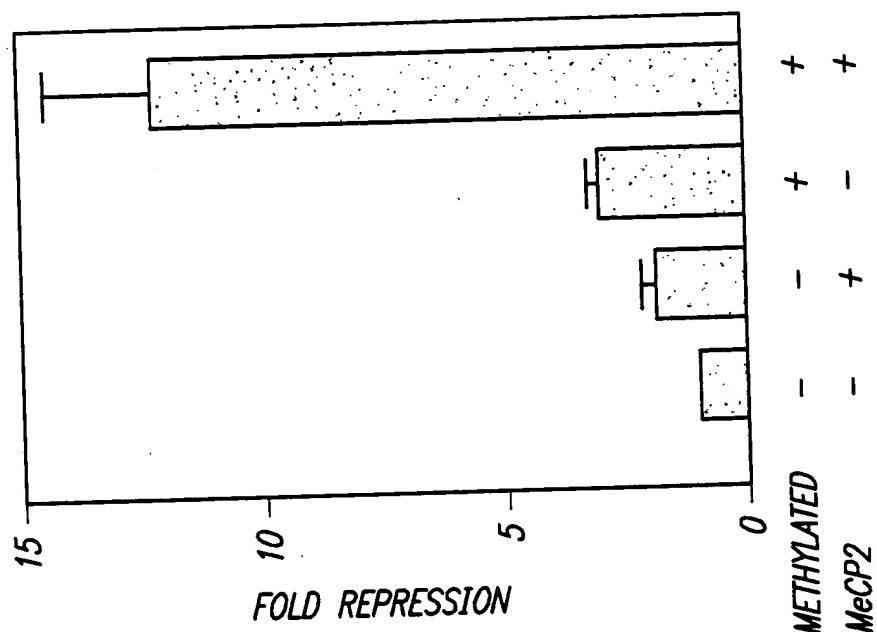


FIG. 10a

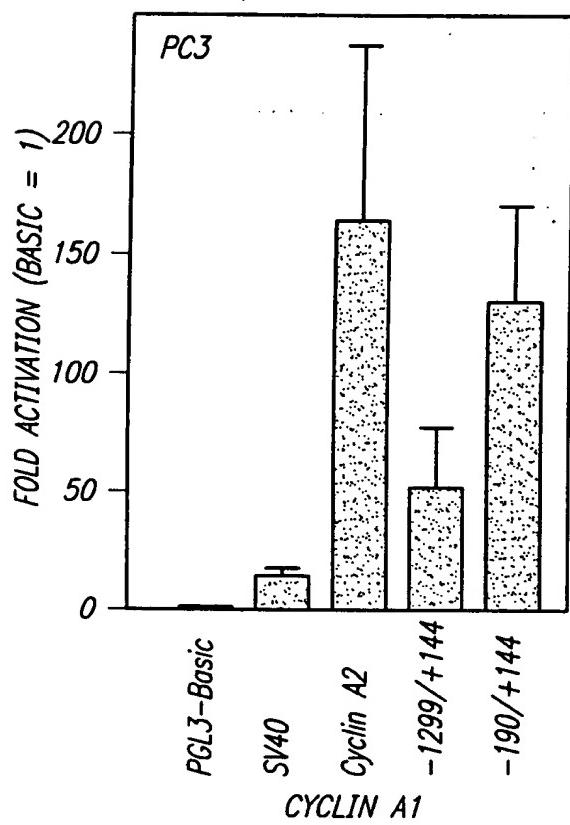


FIG. 10b

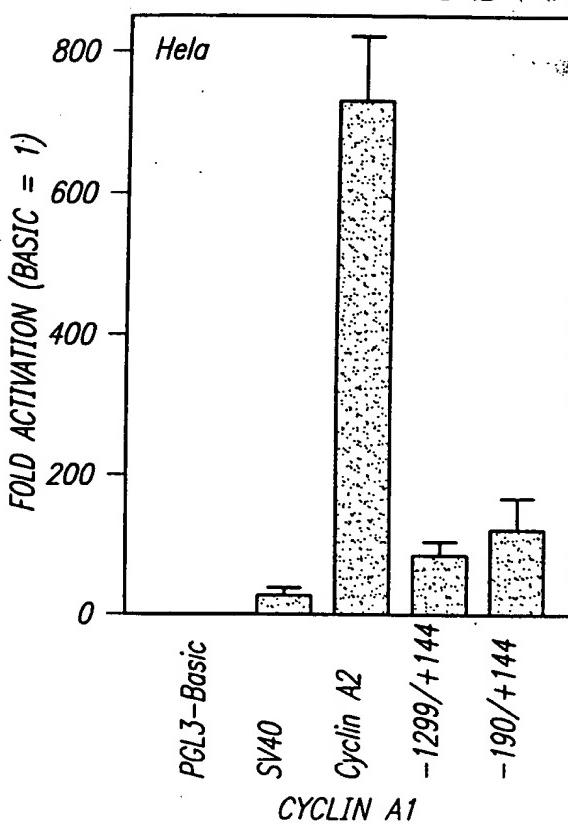


FIG. 10c

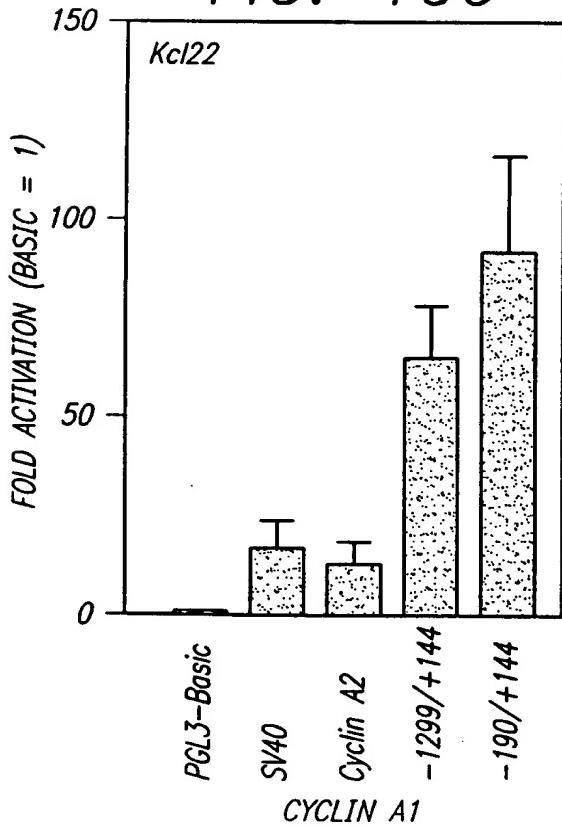


FIG. 10d

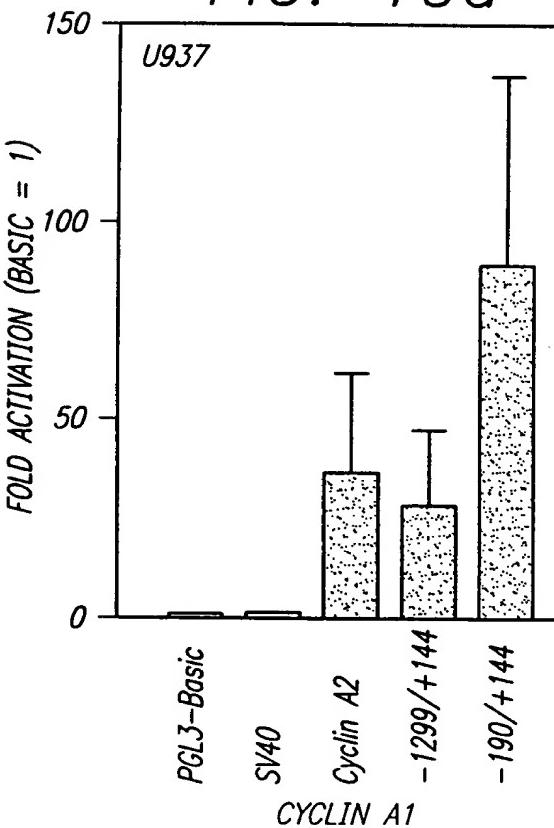


FIG. 11a

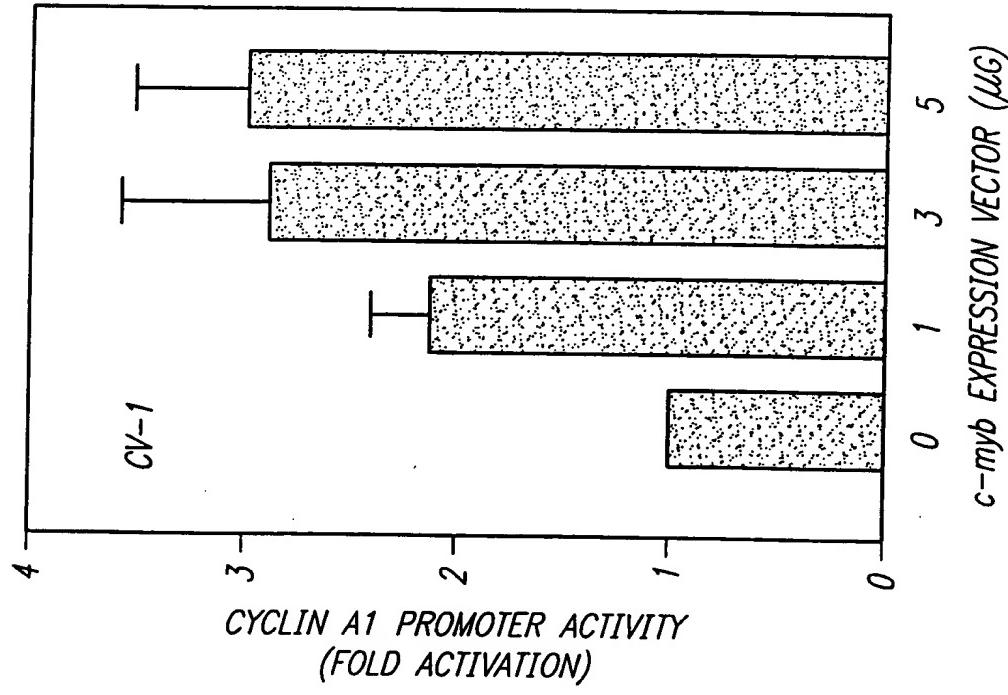


FIG. 11b

